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Record

WASHINGTON
UNIVERSITY
IN ST. LOUIS

Vol. 21 No. 10 Oct. 31, 1996

Committee to focus
on increasing WU's
internationalization

A committee charged with considering policies, programs and initiatives to enhance Washington University's internationalization efforts has been formed by Chancellor Mark S. Wrighton.

The International Relationships Committee, which first convened Sept. 30, is made up of 10 University faculty members and includes representation from each of the schools. Among the group's responsibilities are to assess opportunities to build the University's international impact and to make recommendations regarding the development of educational and research programs.

The committee also will provide faculty input on foreign policy issues ranging from business to research to human rights.

The formation of the committee is an outgrowth of the Project 21 planning process, which underlined the theme that the University's scope needs to broaden and better connect with the world beyond the United States.

Said Wrighton: "The charge to the committee is to look for opportunities to enhance Washington University's relationships with people and organizations in different nations and to recommend guidelines for our future international commitments. Increased internationalization is a key concept stemming from our Project 21 planning for Washington University."

Serving on the committee are:

- Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts and Sciences, who will serve as chair;
- Joseph R. Allen, Ph.D., associate professor of Chinese language and literature in Arts and Sciences;
- Dennis W. Choi, M.D., Ph.D., the Andrew B. and Gretchen P. Jones Professor of Neurology, head of the Department of Neurology, and a member of the Medical Center's board of directors;
- James T. Little, Ph.D., professor of economics and finance in the John M. Olin School of Business;
- Adrian Luchini, associate professor of architecture;
- Marvin H. Marcus, Ph.D., associate professor of Japanese language and literature in Arts and Sciences;
- Sarah B. Spurr, assistant dean and associate professor in the School of Art;
- Tzyh-Jong Tarn, D.Sc., professor of systems science and mathematics and director of the Center for Robotics and Automation;
- Leila N. Sadat Wexler, J.D., LL.M., D.E.A., associate professor of law; and
- Gautam Yadama, Ph.D., associate professor of social work.



Chancellor Mark S. Wrighton hosted a dinner on Saturday, Oct. 26, at University House for Jian Song. Here, Wrighton greets Song, who is state councillor of the State Council, chair of the State Science and Technology Commission and chair of the State Environmental Protection Commission, all of the People's Republic of China. In the center is Yao Wang, a former associate of Song's who now is a graduate student in the John M. Olin School of Business. Song's son is a graduate student in the School of Engineering and Applied Science, and his daughter is a graduate student at Saint Louis University.

Advisory Council for Asia meets for first time

Several Washington University trustees and administrators are attending two premier events in Taipei, Taiwan — the first meeting of the University's International Advisory Council for Asia from Oct. 29-31 and "Business Practices in Asia," a Nov. 1-2 business forum sponsored by the University and by Chinfon Group.

Hosting the meeting and participating in the forum is University Trustee and Advisory Council Chair Shi Hui Huang, M.D., who received his neurosurgical training at the School of Medicine and was a highly regarded practitioner for 25 years in the United States and in Japan before returning to his native Taiwan to lead the family business. Today, he is chairman of Chinfon Group, which has businesses ranging from high technology, manufacturing, construction and financial services to trading and venture capital and which includes Sanyang Industry Co. Ltd., a major manufacturer of Honda automobiles and motorcycles.

The advisory council, which reports to the Board of Trustees, will assist the

University as it prepares long-range plans to strengthen the University's international programs and activities; to advise and consult on recruitment of international students, placement and internships, exchange programs, public relations, alumni relations, scholarships and other philanthropic programs; to help secure international speakers for campus programs; to create a network of alumni, parents and friends of the University that spans countries; and to help the University increase international recognition and visibility as one of the world's leading research and teaching institutions.

The advisory council's 28 members are leaders in industry, academe and the professions in the People's Republic of China, Hong Kong, India, Indonesia, Japan, the Philippines, Singapore, South Korea, Taiwan, Thailand and the United States. University trustees who are members are Huang; John F. McDonnell, chairman of McDonnell Douglas Corp.; and William K. Y. Tao, building systems consultant and retired founder of William K. Y. Tao & Associates, an international

building and consulting firm. Many council members are parents of University alumni or students.

Chancellor Mark S. Wrighton said, "This council will play a key role in the next great phase of progress by Washington University, and its successes will be a great asset for the University." Wrighton also stressed the important role business plays in fostering international understanding, cooperation and success in mutual ventures.

The business forum, designed with those aims, will feature Frederick F. Chien, Ph.D., speaker of the Taiwan National Assembly; Shih-Chien Yang, Ph.D., minister of state, Executive Yuan, People's Republic of China; and Chi Schive, vice chair, Taiwan Council for Economic Planning and Development. Panel discussions will include McDonnell and Stuart I. Greenbaum, Ph.D., dean of the John M. Olin School of Business. Attendees will include business, economic and academic leaders representing prominent Asian and U.S. entities.

University outlines advantages of MetroLink expansion

Chancellor Mark S. Wrighton this week sent a letter to residents of nearby neighborhoods explaining the advantages of a MetroLink light-rail expansion along Forest Park Parkway. The following is the full text of that letter:

Dear Neighbor:

Expanding the MetroLink light-rail system has been under discussion by community leaders and citizens' groups for several years. I am writing to explain why Washington University favors expanding MetroLink along Forest Park Parkway.

In our view, continued expansion of MetroLink is vital to the future health and well-being of the entire St. Louis region. Connecting the major employ-

ment and retail centers of the region with the neighborhoods in which people live is important to supporting economic viability and civic life. The existing light-rail system is just the first phase of building the modern mass-transit infrastructure necessary for St. Louis to meet the transportation needs of its citizens. Expanding our system of roads and highways and adding additional bus service cannot meet these needs. Wider roads and more highways would encourage more vehicles, thus increasing traffic congestion and air and noise pollution. St. Louisans already face serious air-quality problems, especially high ozone levels in the summer months.

The health of the residential areas surrounding the Hilltop Campus and the

health of Washington University are inextricably bound together. We support the proposed Forest Park Parkway route primarily because of the advantages it offers to the people who live and work in our area. The stability and future viability of our neighborhoods require convenient access to major regional employment and cultural/entertainment centers. MetroLink will provide that access. Equally important, a MetroLink line serving our area will anchor the local centers of economic activity along the route.

In the spring of 1995, the Executive Committee of Washington University's Board of Trustees directed former Chancellor William H. Danforth and Univer-

Continued on back page

In this issue ...

Razor-sharp acuity 2
Researchers to develop technology that will help map the human brain with unprecedented detail

Making gains with grains ... 3
Ernst Zinner, Ph.D., uses laboratory measurements of presolar materials to study stellar evolution

Getting the story 6
Four students traveled to San Diego this month to capture the last presidential debate on tape

Medical Update



Learn, Share and Live

As part of Learn, Share and Live, a community breast cancer education program, participants string necklaces of beads that demonstrate different sizes of breast lumps. The participants are, from left, Pearl Williams, Viola Hill and Alexander Bankhead. The program, which is co-sponsored by the School of Medicine and Grace Hill Neighborhood Services, uses peer-led small groups to promote breast cancer awareness among elderly, inner-city women.

Design team targets enhanced administrative services

Defining schoolwide standards for providing consistent, high-quality clinical service to patients, referring physicians and health insurance providers is the key focus of the practice plan initiative recently announced by the School of Medicine. But improving the efficiency of administrative services that support the medical school is just as important in the practice plan's overall efforts to improve the medical school's competitive position in a rapidly changing, cost-conscious health-care market.

During the past year, members of the Administrative Services Design Team have reviewed benchmark data and analyzed opportunities to improve productivity across all clinical departments.

The team also has projected cost savings and service improvements achievable through re-engineering department operations, general productivity improvements and the sharing of support services across departments.

Functions examined by the team included purchasing, information systems support, registration, scheduling, support services, clinical support, transcription, accounting, general administration and personnel/payroll. Of the functions examined, purchasing holds the highest potential for significant cost savings, said Samuel A. Wells Jr., M.D., the Bixby Professor of Surgery and head of the Department of Surgery. Wells is a member of the Practice Plan Steering Committee and chair of the Administrative Services Design Team, which includes department heads, faculty and staff.

"When the team looked at the high volume of goods and services purchased by individual departments and by the School of Medicine as a whole, it became very clear that improvements in our purchasing systems could produce significant cost savings," Wells said. "By conducting administrative services such as purchasing more efficiently, we'll be able to pass savings along to patients and their health insurance companies and, thereby, make the School of Medicine's clinical practice more attractive in the marketplace."

Initial cost-reduction targets developed by the team for purchased goods

and services include: negotiating bulk-purchase agreements with single-source vendors, eliminating on-site storerooms by negotiating just-in-time delivery with major vendors, and developing a systematic approach to service contracts.

"Currently, the clinical departments and the School of Medicine are not gaining the cost advantage offered through consolidating purchases of key, high-volume items," Wells said. "Savings from this approach can be as high as 40 percent over current prices paid for select items. Additionally, high-volume purchasing gives the School of Medicine leverage to be in a strong price and service negotiating position with vendors."

In addition to purchasing, the Administrative Services Design Team determined that support services also offer a significant opportunity to restructure, improve service and lower costs. The team's recommendations include consolidating mail services and shipping and receiving, outsourcing laundry operations and consolidating security services.

In reviewing the clinical support services, the team determined that improvements in this area would be crucial to the support of the medical school's practice standards and plans for a new Ambulatory Care Center. It recommended that a core level of direct patient-care services and their associated staff be aggregated by site. To do this, staff may be shared across departmental lines and through cross-training. Skills-mix analyses will need to be conducted.

In planning for the Ambulatory Care Center, it was assumed that staff would be shared across department lines to the fullest extent possible. Additionally, the design team recommended that a staffing-to-demand analysis be conducted for all outpatient sites to identify opportunities for flexible staffing and that the skills mix be analyzed within those operations. "It is crucial as we move forward into designing the model for our clinical support functions that we find the right mix of skills, performance and efficiency to maintain and enhance our service to our patients. It is excellence

of service that must remain our focus," said Ralph G. Dacey Jr., M.D., the Shi Huang Professor of Neurological Surgery and chair of the Department of Neurological Surgery. Dacey is a member of the Practice Plan Steering Committee and the Administrative Services Design Team.

While the team's recommendations support central staffing pools, it also supports the discretion of divisions and/or physicians to maintain additional staff at the expense of individual departments.

"It's important that our staff with the highest levels of nursing and technical skills be used in the delivery of quality patient care. Modifying the skills mix of the support staff should free these caregivers up for patient care while giving them the clerical and process support that the operations need," Dacey said. "The realignment of work to the appropriate personnel should result in better service and cost savings overall."

Cost savings and improved service also can be achieved in the area of information systems, team members said, by consolidating all basic networks within the School of Medicine. The team's recommendations for information systems include a centralized management infrastructure — including application support, program development and standardized platforms — as well as the integration of the School of Medicine's information systems with hospital and Hilltop Campus systems.

Additionally, the team recommended that the medical school actively pursue implementing a fully integrated electronic medical record, which would be designed to link data from the clinical departments, BJC Health System and campus hospitals.

Re-engineering teams currently are forming to address the above-mentioned areas in administrative services, as well as other areas. For more information or to join one of these teams, call Joan M. Podleski at (314) 362-1062. Other design teams' work will be covered in subsequent issues of the Record. This article and others in this series will be available on the World Wide Web at <http://wupa.wustl.edu/record/record.html>.

Researchers to make human brain templates

School of Medicine researchers have received a \$1.3 million grant from the National Institute of Neurological Disorders and Stroke at the National Institutes of Health to develop computer technology that will help map the shape of the human brain with unprecedented detail, depicting deep substructures with razor-sharp acuity.

The new technology, called Global Pattern Matching, acts as a magnifying glass for current imaging technologies, such as magnetic resonance imaging and computed tomography. Through advanced mathematics and innovative computer programming, the researchers plan to automate the search for variations between groups in brain substructures, making brain mapping clearer and more versatile in the diagnosis of psychiatric and neurological disorders.

"What is pioneering about this work is the development of methods that will



Michael W. Vannier

illustrate and measure small differences in the brain that are due to gender, handedness, laterality and various disease processes," said Michael W. Vannier, M.D., professor of radiology, assistant

professor of surgery and principal investigator of the grant. "The problem is that the brain is so complex and its shape is so difficult to work with that current technology is unable to separate variation from disease processes."

More detailed image-analysis capabilities also would improve the understanding of the normal structure and function of the brain, Vannier said. Ultimately, the researchers hope to create a malleable, virtual template of the human brain that may be customized for exquisite neurological profiles of patients.

A better, more precise method for mapping the brain invariably will improve surgical techniques by giving surgeons a more detailed road map for locating and treating trouble spots, such as tumors.

Record

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 **Washington**
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Zinner traces the stellar origins of 'stardust'

The fourth floor of Compton Hall houses numerous moon rocks. To keep these irreplaceable samples secure, access to the area is restricted. In this secluded environment, Ernst Zinner, Ph.D., research professor of physics and of earth and planetary sciences in Arts and Sciences and a fellow of the McDonnell Center for the Space Sciences, works undisturbed on the subject of dust. Zinner's dust isn't the household stuff that accumulates in corners. It isn't even from Earth.

"These grains of dust are so anomalous, so different from what you find in the solar system, that we know they were not formed here," Zinner said.

In fact, they were formed billions of years ago in the atmospheres of dying stars. "As a star dies," Zinner explained, "its atmosphere begins to expand and cool. Then ions turn into atoms, atoms form molecules and, eventually, molecules condense into grains."

The dust then is ejected into outer space, where it collects with gas and dust from other stars to form cold, dark clouds.

More than 4.5 billion years ago, one such cloud collapsed to form our solar system, and the dust — literally pieces of distant and long-dead stars — was preserved in meteorites. Not quite 10 years ago, "stardust" was recovered from meteorites for the first time, and Zinner has led the way in the analysis of these grains since.

"Before the isolation of stardust from meteorites, all astronomy was done from a distance," he said. "Now that we have stardust here in the laboratory, we are able to perform experiments on material from actual stars and get information that couldn't be obtained any other way. The most interesting information comes from the isotopic composition of the grains."

Isotopes are versions of an element that have different numbers of neutrons and, consequently, different masses. In the same way that a zoologist studies a set of footprints to learn about the animal that made them, Zinner and his colleagues study the isotopes in a grain to learn about the parent star — its mass, age, composition and other characteristics.

Making single grain measurements

When stardust first was isolated from meteorites, scientists made measurements on bulk samples of thousands to millions of grains — a technique that produced interesting results but at the sacrifice of information pertaining to individual stars. To take full advantage of the opportunity the grains presented, Zinner used an instrument called the ion microprobe to make single grain measurements possible. One of these grains is only one-ten-thousandth of an inch in size.

The ion microprobe is a mass spectrometer. Like a prism, which divides light into its different colors, the ion microprobe divides matter into its different isotopes. Zinner said it works in the following way: First, the microprobe bombards the grain with high-speed ions and knocks, or "sputters," secondary ions out of the sample. The secondary ions then are focused into a narrow beam and passed through a magnetic field, which deflects the ions. Because the lightweight ions are deflected more than the heavy ones, the beam fans out into several beams, each of which contains only one type of isotope.

Zinner equipped the ion microprobe with an efficient system for measuring the intensity of the isotope beams and developed many analysis techniques. An important advance for the analysis of grains is a technique called isotope imaging, which was developed by Robert M. Walker, Ph.D., the McDonnell Professor of physics and director of the McDonnell Center; former postdoctoral research associate Peter Hoppe, Ph.D.; and graduate student Larry Nittler. Instead of measuring grains one by one, isotope imaging enables scientists to measure several grains simultaneously.

"Typically, we put a few thousand grains on a piece of gold foil and then defocus the bombarding ion beam so it sputters about 20 of the grains at once," Zinner said. The ions from each grain travel through the microprobe separately and land on the detector in a spot that correlates to the position of the grains on the foil. In Zinner's words: "The detector receives an image of the grains in mass-selected ions."

Automating the process has made it possible to measure as many as several thousand grains per day. Zinner said the single grain measurements have turned out to be much more interesting than the bulk measurements.

"Single grain measurements have revealed tremendous variety among the grains and, of course, among their stellar origins," Zinner said. "The range of isotopic compositions has turned out to be greater than anyone had expected." Stellar sources include red giant stars and supernovae, which are massive stars that end their lives in gigantic explosions.

Zinner, who is described as "tireless" and "determined" by students and colleagues, takes evident pleasure in his work and in communicating its foundations

Nittler, who will defend his doctoral thesis next week, said he is glad to have had the opportunity to do this research and that it would not have been possible without Zinner's measurement techniques. "Ernst is truly one of the fathers of this field," Nittler said. "His developments on the ion microprobe are the reason we are able to do these studies. Twenty years ago, no one would have imagined that we would be able to study these grains on such a small scale."

For many astronomers, however, the grains are remarkable because they pose serious

challenges to prevailing notions of the structure and evolution of stars. Donald Clayton, Ph.D., a professor in the Department of Physics and Astronomy at Clemson University, said: "Zinner's data show a lot of surprising and puzzling relative abundances of the isotopes, many of which don't fit standard models of how stars work. The data is right, however, so it's up to the astronomers to figure out how to interpret it and refine the models."

Yet Clayton went on to say that astronomers have been slow to get going. "Large numbers of astronomers are still unaware of this new data, while others don't quite know what to make of it," Clayton said. "The results are exciting, but astronomers have yet to come to grips with what it all means."

Together with Walker and Thomas Bernatowicz, Ph.D., research professor of physics and of earth and planetary sciences, Zinner organized this week's presolar grains conference to address these problems. He hopes the conference will promote familiarity with the grain data and bring about an exchange among scientists from each of the relevant disciplines: the physicists and chemists who analyze the grains, the astrophysicists who develop theoretical models of stars, and the astronomers who observe the grains in stellar atmospheres and cold, dark clouds. (See story on page 5.)

A scientist among artists

Zinner was born in 1937 in Steyr, Austria. Although he was raised in a family of artists, Zinner knew from an early age that he wanted to become a scientist. At 18, he left his hometown of 1,500 residents to attend Vienna's Technical University, where he earned the Austrian equivalent of a master's degree in physics.

Not long thereafter, he applied to graduate school in the United States and decided to pursue a doctorate in high-energy physics at Washington University. After he earned that degree in 1972, he immediately joined the University's Laboratory for Space Physics (now the McDonnell Center), led by Walker.

"I came to the States back in 1965 because I decided I needed a change," Zinner said. He had spent the previous 10 years in Vienna and wanted to continue to live in a big city. With Washington University as his choice for graduate school, that big city meant St. Louis. However, Zinner became concerned about St. Louis' reputation when he met a man in Vienna who was from Manhattan. When Zinner told the man he was going to St. Louis, the New Yorker blurted: "Oh, you poor man. Don't you know St. Louis is in the middle of the cultural desert?"

Although St. Louis may not be quite as cosmopolitan as New York or Vienna, Zinner is not dissatisfied. True to his reputation as a hard worker, he said he hardly finds enough time to take advantage of the cultural offerings here. But that is not to say Zinner spends all his time in the laboratory. On the contrary, he plays the harpsichord once a week in an informal baroque ensemble and currently is trying to remain one step ahead of his 8-year-old son, Max Giacobini Zinner (named after the comet Giacobini-Zinner), as they learn the cello together.

Zinner's wife, Brigitte Wopenka, Ph.D., senior research scientist in earth and planetary sciences, shares not only her husband's Austrian roots but also his scientific inclination. She and her colleagues have developed techniques for determining the composition of geological samples using a laser Raman microprobe. In one of her few collaborations with her husband, Wopenka has used this instrument to determine the crystal structure of presolar graphite grains — which puts limits on the conditions under which the grains were formed.

When asked what he thought of the recent evidence for life on Mars, Zinner said he is not convinced. "I am waiting for more proof," he said.

What is needed is proof as solid as stardust.

— Debra Daugherty



Ernst Zinner, Ph.D., works with physics research associates Xia Gao, Ph.D., left, and Sachiko Amari, Ph.D.

"He has the unique ability to teach how one does good science."

— Larry Nittler

to others. Although his interests clearly lie in the deeper points, he is receptive to even the simplest questions and delves into the material enthusiastically. His students benefit from his clear, down-to-earth presentation of the subject.

Nittler, who has worked with Zinner for the past four years, said: "Ernst explains things well and has a great scientific sense, which he conveys to his students. He has the unique ability to teach how one does good science."

Nittler adeptly has applied the skills he acquired from Zinner to his thesis work (also done with Walker): the study of aluminum oxide, or "corundum," grains. Nittler has reasoned that because of the unusual oxygen isotopic ratios of these grains, they most likely came from red giants — low-mass stars like the sun that are old enough to have started expanding but still young enough to be rich in oxygen. He also has measured the oxygen and aluminum isotopes in the grains and shown that, according to theoretical models of red giants, some of the grains were formed in stars that lived as long as 6.5 billion years. Because the solar system is more than 4.5 billion years old, those stars must have been born at least 11 billion years ago. This requires the age of the Milky Way and, for that matter, the Universe — both of which must be older than the stars — to be at least 11 billion years old.

Calendar

Visit Washington University's on-line calendar at
<http://cf6000.wustl.edu/calendar/events/v1.1>

Oct. 31–Nov. 9



Exhibitions

"Art & Science: Investigating Matter." Through Nov. 3. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-4:30 p.m. weekdays; 1-5 p.m. weekends. 935-5490.

"Type/Script: Notebooks on Examination." An examination of the writer's notebook as function and as form. Exhibit opens Oct. 31 and runs through Jan. 15. Special Collections, Olin Library, Level Five. Hours: 8:30 a.m.-5 p.m. weekdays. 935-5495.



Films

All Filmboard movies cost \$3 and are shown in Room 100 Brown Hall. For the 24-hour Filmboard hotline, call 935-5983.

Friday, Nov. 1

7 and 9:30 p.m. Filmboard Feature Series. "The Joy Luck Club." (Also Nov. 2, same times, and Nov. 3 at 7 p.m.)

Midnight. Filmboard Midnight Series. "La Femme Nikita." (Also Nov. 2, same time, and Nov. 3 at 9:30 p.m.)

Monday, Nov. 4

7 and 9 p.m. Filmboard Classic Series. "La Cage Aux Folles." (Also Nov. 5, same times.)

Tuesday, Nov. 5

6 p.m. Chinese Film Series. "Dust in the Wind" (1987), with English subtitles. Room 219 South Ridgley Hall. 935-5156.

Friday, Nov. 8

7 and 9:30 p.m. Filmboard Feature Series. "Heavenly Creatures." (Also Nov. 9, same times.)

Midnight. Filmboard Midnight Series. "Revenge of the Creature," in 3-D. (Also Nov. 9, same time.)



Lectures

Thursday, Oct. 31

4 p.m. Cancer Center lecture. The Julia Hudson Freund Memorial Lecture in Recognition of Meritorious Research in Oncology. "Cancer Genes and Cell Signaling," J. Michael Bishop, the University Professor of Microbiology, Immunology, Biochemistry and Biophysics, U. of California, San Francisco. Eric P. Newman Education Center Aud. 286-0008.

4:30 p.m. Math colloquium. "Extremals for Eigenvalues of Laplacians," Richard Laugesen, prof. of mathematics, Johns Hopkins U. Room 199 Cupples I Hall. 935-6726.

7 p.m. Black Arts and Sciences Festival discussion. "The Political Implications of Rap/Hip-Hop." Features faculty, students and community leaders. Friedman Lounge, Wohl Student Center. 935-5994.

Friday, Nov. 1

Noon. Cell biology and physiology seminar. "Studying Nociceptors in a Culture Dish," Edwin W. McCleskey, Vollum Institute, Oregon Health Sciences U. Cell Biology Library, Room 426 McDonnell Medical Sciences Bldg. 362-6950.

6 and 8:30 p.m. WU Association Travel Lecture Series. "The Best of the Canadian West," Bob Willis. Graham Chapel. Cost: \$4.50. 935-5212.

Monday, Nov. 4

Noon. 21st Century Lecture Series. "Cave Archaeology in North America," Patty Jo Watson, the Edward Mallinckrodt Distinguished University Professor, Dept. of Anthropology. Open to WU community. King Center, seventh floor, The Bernard Becker Medical Library. (See story on page 5.) 935-5151.

4 p.m. Immunology seminar. "Regulation of Peptide Binding to Class II Histocompatibility Molecules," Peter Jensen, assoc. prof. of pathology, Emory U., Atlanta. Eric P. Newman Education Center. 362-3365.

Tuesday, Nov. 5

Noon. Molecular microbiology/microbial pathogenesis seminar. "Drug Resistance in Protozoan Parasites: Role of mdr-like Genes," Dyann Wirth, Dept. of Tropical Public Health, Harvard U. Cori Aud., 4565 McKinley Ave. 362-1514.

4 p.m. Diabetes research seminar. "Hypoglycemia is the Limiting Factor in the Management of IDDM," Philip Cryer, the Irene E. and Michael M. Karl Professor of Endocrinology and Metabolism. Pathology Library, Room 3723 West Bldg. 362-7435.

Wednesday, Nov. 6

8 a.m. Obstetrics and Gynecology Grand Rounds. "Maternal Recognition of Pregnancy: What Can We Learn From Comparative Approaches?" R. Michael Roberts, prof. of animal sciences, U. of Missouri, Columbia. Clopton Aud., 4950 Children's Place. 454-7886.

11 a.m. Assembly Series. Holocaust Memorial Lecture. "Stopping Impunity for International Crimes," M. Cherif Bassiouni, president, International Human Rights Law Institute, DePaul U. Graham Chapel. (See story on page 6.) 935-5285.

1 p.m. Solid-state engineering and applied physics seminar. "Diffraction Theory Applied to Planar Diffraction Gratings," R.A. Livingston, graduate student in electrical engineering. Room 305 Bryan Hall. 935-5565.

3:30 p.m. Physics colloquium. "Physics at Work: Decontaminating Soil by the Application of Heat," William Edelstein, research scientist, General Electric Corp., Research and Development, Schenectady, N.Y. Room 204 Crow Hall. 935-6252.

4 p.m. Biochemistry and molecular biophysics seminar. "RNA-protein Interactions in the HIV Rev-RRE Complex," James Williamson, assoc. prof. of chemistry, Massachusetts Institute of Technology. Cori Aud., 4565 McKinley Ave. 362-0261.

4 p.m. Infectious diseases lecture. The Pfizer Visiting Professorship Lecture in Infectious Diseases. "The Role of Glucose in the Complications of Aging and Diabetes," Anthony Cerami, president, The Picower Graduate School of Molecular Medicine and The Picower Institute for Medical Research. Eric P. Newman Education Center Aud.

7:30 p.m. Visiting artist lecture. Thomas Barrow, prof. of art, U. of New Mexico. Steinberg Hall Aud. 935-6500.

Thursday, Nov. 7

7:30 a.m. Dept. of Medicine Grand Rounds. "How to Prevent Cytokine Storm in Sepsis," Anthony Cerami, president, The Picower Graduate School of Molecular Medicine and The Picower Institute for Medical Research. Clopton Amphitheater, Wohl Clinic.

1:10 p.m. Social work discussion. "Election 1996: Impact on Social Issues and Programs." Speakers: Repps Hudson, coordinator of political coverage, St. Louis Post-Dispatch; Peter DeSimone, executive director, Missouri Association for Social Welfare; and Pam Lokken, director, governmental and community relations for WU. Brown Hall Lounge. 935-4909.

3 p.m. Chemistry/physics seminar. "The Disoriented Chiral Condensate," Jorgen Randrup, senior scientist, Lawrence Berkeley National Laboratory. Room 241 Compton Hall. 935-6530.

4 p.m. Cancer Center seminar. "Switch Between Latency in Lytic Cycle in Kaposi's Sarcoma Herpesvirus (HHV8)," George

Miller, prof. of epidemiology, molecular biophysics and biochemistry, Yale U. School of Medicine. Third Floor Aud., St. Louis Children's Hospital. 362-9035.

4 p.m. Cardiovascular bioengineering seminar. "Cardiac Diastolic Function," Sandor J. Kovacs, assoc. prof. of medicine and director, Cardiovascular Biophysics Lab. Room 507 Lopata Hall. 454-7459.

4:15 p.m. Philosophy lecture. "Kant's Paralogisms Revisited," Karl Ameriks, prof. of philosophy, U. of Notre Dame. Stix International House. 935-6614.

4:30 p.m. Math colloquium. "Syzygies of Projective Varieties: An Interplay Between Algebra and Geometry," B. Purnaprajna, Oklahoma State U. Room 199 Cupples I Hall. 935-6726.

Friday, Nov. 8

Noon. Cell biology and physiology seminar. "Upstream and Downstream in Death Agonists," Stanley J. Korsmeyer, prof. of medicine and of pathology. Cell Biology Library, Room 426 McDonnell Medical Sciences Bldg. 362-6950.

1-5 p.m. Architecture symposium. "On Global Practice." Session I: "Critical Perspectives." Continues Nov. 9 at 9 a.m. with Session II: "Corporate Realities." Steinberg Hall Aud. 935-4636.

4:30 p.m. Math colloquium. "A Connection Between Wavelet Theory and Operator Algebras," David Larson, prof. of mathematics, Texas A&M U. Room 199 Cupples I Hall. 935-6726.

5 p.m. Art history lecture. "The Importance of Being Wholesome in the 1890s," Sarah Burns, prof. of American art, Indiana U. Room 116 Givens Hall. 935-5270.



Music

Thursday, Nov. 7

8 p.m. Student recital. Graham Chapel. 935-5581.

Friday, Nov. 8

7 p.m. Indian vocal concert. Sponsored by the Dept. of Music, the Gallery of Art and the Sangeetha Society. Cost: \$10 for the general public; \$7 for senior citizens; and free for WU faculty, staff and students. Steinberg Hall Aud. 935-5581.



Performances

Friday, Nov. 1

8 p.m. Talent show. Part of the Black Arts and Sciences Festival. The Gargoyle, Mallinckrodt Center. 935-5994.



Miscellany

Registration continues for the following Office of Continuing Medical Education events: "Bipolar Mood Disorder in Clinical Practice" (Dec. 7) and "Contemporary Management of Congestive Heart Failure" (Dec. 7). 362-6891.

Midwest AIDS Training and Education Center seminar registration continues. "Dimensions of a Disease — A Three-day

Seminar on HIV." Nov. 13-15. Adam's Mark Hotel, Fourth and Chestnut streets, downtown St. Louis. A late registration fee applies after Oct. 15. 362-2418.

Thursday, Oct. 31

11:30 a.m.-1 p.m. Halloween luncheon for faculty and staff. Prizes awarded for best costumes. Wohl Student Center. Cost: \$5.50. To make reservations by the Oct. 28 deadline, call 935-5054.

Friday, Nov. 1

7:30 a.m. Office of Continuing Medical Education event. "Fingers to Toes: Comprehensive Orthopaedic Review Course for Primary Care Physicians." (Continues Nov. 2.) Eric P. Newman Education Center. 362-6891.

11:45 a.m. Office of Continuing Medical Education event. "Rupert B. Turnbull Memorial Lectureship and Surgical Grand Rounds." (Continues Nov. 2.) Steinberg Amphitheater, Barnes-Jewish Hospital. Advance registration preferred. 362-6891.

3 p.m. Special Collections symposium. "Jay Wright: Dimensions of History." The first session at 3 p.m. in Graham Chapel is a lecture by Harold Bloom, the Sterling Professor of Humanities at Yale U. and the Berg Professor of English at New York U. The second session at 7 p.m. in the Women's Building Lounge includes readings followed by a reception in Special Collections, Olin Library, Level Five. The symposium continues Nov. 2 at 11 a.m. with a lecture by Isadore Okpewho, prof. of Africana studies, of English and of comparative literature, State U. of New York, Binghamton. There will be a panel discussion at 2 p.m., followed by a reading by Wright at 8 p.m. All of the Nov. 2 sessions are in the Women's Building Lounge. To register, call 935-5495.

Saturday, Nov. 2

1:30-3 p.m. Book arts workshop. "How to Get Published in Magazines." A panel discussion featuring River Styx Editor Richard Newman, Delmar Editor Jeff Daniels, Sagarin Review Editor Howard Schwartz, and others in the literary community. Room 104 Bixby Hall. 935-4643.

Sunday, Nov. 3

11 a.m. Hillel Center event. Junior/senior trip to Stone Hill Winery in Hermann, Mo. To make a reservation, call 863-3161.

Monday, Nov. 4

7 p.m. Reading. "Poetics as Usual: A Poetry Reading on Election Eve." Co-sponsored by the International Writers Center, River Styx and the St. Louis Public Library. Featuring local poets David Clewell; Carl Phillips, assoc. prof. of English and of African and Afro-American studies; June Soule; and Marjorie Stelmach. St. Louis Public Library, 1301 Olive Blvd. 935-5576.

Wednesday, Nov. 6

8 p.m. Fiction reading. Featuring Amitav Ghosh, author of "The Circle of Reason," "In An Antique Land," "Shadowlands" and "The Calcutta Chromosome." Hurst Lounge, Room 201 Duncker Hall. 935-5190.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state time, date, place, sponsor(s), title of event, name(s) of speaker(s) and affiliation(s), and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Judy Ruhland at Campus Box 1070 (or via fax: (314) 935-4259). Submission forms are available by calling (314) 935-4926.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline or holiday schedule or need more information, please call (314) 935-4926.

Thursday, Nov. 7

6 p.m. Hillel Center event. During "Cheap Eats Thursday," join a group discussion with Henry Schvey, chair, Performing Arts Dept.; prof. of comparative literature; and director of "The Dybbuk." Cheap Eats cost: \$3. Hillel Center, 6300 Forsyth Blvd. 726-6177.

8 p.m. Literary reading. "On the Death of Ken Saro-Wiwa: Readings in Recognition of the Nigerian Writer." Midtown Arts Center, 3207 Washington Ave. Co-sponsored by the International Writers Center. (See story on page 7.) 935-5576.

8 p.m. Hillel Center event. Kristallnacht Theater Program. "Prayer After the De-

cree," a controversial and intriguing play commemorating the Holocaust and "The Night of the Broken Glass." Written, directed and performed by students. Room 100 Brown Hall. 726-6177.

Friday, Nov. 8

8:15 p.m. Hillel Center event. "The Mystical Side of Shabbat," Daniel C. Matt, Graduate Theological Union, Berkeley, Calif. Hillel Center, 6300 Forsyth Blvd. 726-6177.

Saturday, Nov. 9

9 a.m.-noon. Book arts workshop. "Carve Your Own Signature Seal." Room 104 Bixby Hall. Cost: \$35. To register, call 935-4643.

Conference addresses study of presolar grains

About 110 researchers from around the world will gather from Oct. 31 to Nov. 2 in Steinberg Hall to discuss the laboratory study of presolar grains. These grains, or "stardust," are found in primitive meteorites and are providing new insights into the formation of the elements and the evolution of stars.

The McDonnell Center for the Space Sciences in Arts and Sciences and NASA are co-sponsoring the Conference on the Astrophysical Implications of the Laboratory Study of Presolar Materials. During the past nine years — since preserved stardust was discovered in meteorites — members of the McDonnell Center have played leading roles in analyzing these grains in the laboratory and interpreting the results.

By studying the isotopic compositions of grains, researchers are gaining new information on nuclear and chemical processes in stars and on conditions during the formation of the solar system.

Ernst Zinner, Ph.D., research professor of physics and of earth and planetary sciences in Arts and Sciences and a fellow of the McDonnell Center, will open the conference at 8:30 a.m. Thursday, Oct. 31, with a historical overview of the microanalytical study of presolar materials. (*A profile of Zinner appears on page 3.*)

Zinner co-organized the conference with Thomas Bernatowicz, Ph.D., research professor of physics and of earth and planetary sciences, and Robert M. Walker, Ph.D., the McDonnell Professor of physics and director of the McDonnell Center.

Among the topics to be discussed during the conference are short-lived isotopes in solar system solids; the mixing of supernovae ejecta, both observations and computer models; the formation of dust grains around stars; and astronomical observation of isotopic abundances in stars. For information, call (314) 935-6225.

Six alumni, two other individuals to be honored at Founders Day

Six individuals will receive Distinguished Alumni awards, and two others will receive the Robert S. Brookings Award at the Founders Day banquet Nov. 9 at The Ritz-Carlton in Clayton.

The annual banquet commemorates the University's 1853 founding and is sponsored by the Washington University Alumni Association. In addition to the awards presentations, the banquet will include a keynote speech by Pulitzer Prize-winning columnist Dave Barry.

The Distinguished Alumni awards will be presented to six individuals for their outstanding professional achievements, public service and exceptional service to the University. The recipients are: John D. Davidson, M.D., who earned a bachelor's degree in Arts and Sciences from the University in 1948 and a medical degree in 1952; Donald R. Frahm, who earned a bachelor's degree from the John M. Olin School of Business in 1953; Koichi Fujii, M.D., who was a house staff member at the School of Medicine from 1957 to 1962; Jean C. Hamilton, J.D., LL.M., who earned a degree from the School of Law in 1971; Judy Pfaff, who earned a bachelor's of fine arts degree from the University in 1971; and Howard L. Wood, who earned a bachelor's degree in business from Olin in 1961.

The Robert S. Brookings Award, presented by the Board of Trustees, will be given to two individuals who exemplify the alliance between the University and its community. The recipients are Shi Hui Huang, M.D., a current trustee and a former house staff member at the medical school, and Edith Waldman Wolff, president of Wolff Construction Co.

JOHN D. DAVIDSON, M.D.

A St. Louis native, Davidson received both undergraduate and medical degrees from the University and completed his residency training here. Following a cardiology fellowship at the National Heart Institute in Bethesda, Md., he returned to St. Louis, where he entered private practice and joined the medical school faculty. He is a professor of clinical medicine and continues actively teaching, lecturing and doing basic research in hyperbaric medicine. Davidson was honored by the medical school in 1992 with the Alumni/Faculty Award.

DONALD R. FRAHM

A 1953 graduate of the business school, Frahm is chairman and chief executive officer of ITT Hartford Group Inc. and also serves as a member of the company's board of directors. Under Frahm's leadership, ITT Hartford's 1995 revenues grew to more than \$12.2 billion. He was recognized in 1992 by Business Week magazine, which selected him among its "Best Managers of 1991." In 1989, he received a Distinguished Alumni Award from the business school.

KOICHI FUJII, M.D.

Fujii, who served as a house staff member in surgery from 1957 to 1962 at the Medical Center, was inaugurated in 1991 as the first president of the Washington University Club of Japan. Fujii is a member of the International Advisory Council for Asia, which is meeting in Taiwan this month. In addition to his responsibilities as a surgeon and partner of the Tokyo Medical and Surgical Clinic, Fujii serves as a professor of surgery at the Tokai University School of Medicine in Japan.

JEAN C. HAMILTON, J.D., LL.M.

Hamilton in 1990 became the first woman sworn in as a U.S. District Court judge in Missouri (Eastern District) and now serves as chief judge. From 1988 to 1990, she served on the Missouri Court of Appeals, Eastern District, and previously served as a judge in the 22nd Judicial Circuit of Missouri in St. Louis. Hamilton received a degree in 1971 from the School of Law, where she was Law Quarterly articles editor. In 1982, she was awarded an LL.M. from the Yale University Law School. Hamilton has served the Washington University School of Law as an adjunct professor of pretrial practice and procedure, as a judge in the moot court and client counseling competitions, and as an

active member of the school's National Council and the Law Alumni Association.

JUDY PFAFF

Pfaff graduated from the University in 1971 with a bachelor's of fine arts degree. She then earned a master's degree from Yale University. A sculptor and installation artist, Pfaff began her career as an abstract painter. She first gained recognition in the mid-1970s with colorful, synergistic room installations she created in museums and galleries. She recently completed "Cirque, CIRQUE," a vast, ceiling-suspended artwork she created for the new Pennsylvania Convention Center in Philadelphia. Other works commissioned for public places have included a sculpture for GTE Corp. in Irving, Texas, and a lobby installation for the Miami Beach Police Department.

HOWARD L. WOOD

Wood is a co-founder and chairman of the Management Committee of Charter Communications Inc. The St. Louis-based Charter, with more than 1 million customers, is among the largest operators of cable-TV properties in the United States and has operations in 17 states. He received a bachelor's degree from the business school in 1961. Wood worked on a University task force in 1980 that charted the course for the business school's development. He has judged several Olin Cup competitions and was president of the business school's Alumni Association.

SHI HUI HUANG, M.D.

Huang is a highly regarded neurosurgeon and a prominent global businessman. In 1954, Huang was one of the first Asians to come from Taiwan to the School of Medicine to receive full neurosurgical training under the renowned Henry G. Schwartz, M.D., the August A. Busch Jr. Professor Emeritus and lecturer in neurologic surgery. Huang later returned to Asia and established a neurosurgery center in Japan. Huang in 1979 underwent a career change when he began to lead the family business. Today, he is chairman of the board of Chinfon Group. Huang serves on the Board of Trustees and chairs the International Advisory Council for Asia, which is meeting in Taiwan this month.

EDITH WALDMAN WOLFF

Washington University is just one of many organizations that benefit from the generosity of Edith Waldman Wolff. The School of Medicine has benefited from the generosity of Wolff and her late husband, Alan. The Alan A. and Edith L. Wolff Charitable Trust provides funds for many cutting-edge research projects at the medical school. Born and raised in St. Louis, Edith Waldman married Alan Wolff in 1941. Alan Wolff formed Wolff Construction Co. in the 1940s and became a pioneer builder of strip malls in St. Louis in the 1950s and '60s. After the death of her husband in 1989, Edith Wolff assumed the position of company president.

Reservations to the banquet, which begins at 6:30 p.m., must be made by Nov. 1. The cost is \$45 per person and \$25 per person for those who graduated from the University between 1991 and 1996. For more information or to make reservations, call (314) 935-6503.

Watson to give lecture in 21st century series

Patty Jo Watson, Ph.D., the Edward Mallinckrodt Distinguished University Professor in the Department of Anthropology in Arts and Sciences, will discuss "Cave Archaeology in North America" from noon to 1 p.m. Monday, Nov. 4, in the last lecture of the fall semester's 21st Century Lecture Series. The lecture will be in the King Center, which is located on the seventh floor of The Bernard Becker Medical Library. Complimentary box lunches will be served at 11:45 a.m.

The lecture series is sponsored by the Washington University Woman's Club and the Office of the Associate Vice Chancellor for Academic Planning.

The lecture is free and open to the University community. For more information, call (314) 935-5151.

Sports

Compiled by Mike Wolf, director, and Kevin Bergquist, asst. director, sports information.

Football Bears end three-game slide

After posting their third-consecutive road shutout last weekend, the Washington University football Bears can clinch a share of the University Athletic Association (UAA) championship on Saturday, Nov. 2, with a win at the University of Chicago. The Bears blanked the University of Rochester (N.Y.) 41-0 on Saturday, Oct. 26. The victory halted the Bears' three-game losing skid. Junior tailback Marcus Walker scored a career-best four touchdowns. Also on the line this weekend is the Founder's Trophy, which annually goes to the winner of the WU-Chicago game. The trophy commemorates the first football game played between two UAA institutions.

Current record: 4-3 (2-1 UAA)

This week: 12:30 p.m. Saturday, Nov. 2, at the University of Chicago

Volleyball team seeks eighth-straight title

The volleyball team guns for its eighth-consecutive UAA title Friday, Nov. 1, and Saturday, Nov. 2, at Emory University (Atlanta). WU — which has won eight of nine conference crowns since the league's inception in 1987 — earned the top seed for the championship by posting a 7-0 record last month at the UAA round-robin competition in Chicago. The Bears have posted a 107-1 all-time record against the UAA, suffering their only defeat in 1988 to the University of Rochester. In games played, WU holds a 293-8 edge, outscoring the opposition 14.9-5.7 per game. Only three UAA teams (the University of Rochester, Brandeis University and Emory University) have won games against the Bears in 10 years of league play. The Bears' UAA win streak stands at 90 consecutive matches.

Current record: 26-5 (7-0 UAA)

This week: Friday, Nov. 1, and Saturday, Nov. 2, at UAA Championship, Atlanta

Men's soccer team posts two UAA wins

Although the men's soccer team came up short in its quest for a sixth UAA title, the Bears kept their NCAA tournament hopes alive with a pair of 1-0 home victories against Brandeis University (Waltham, Mass.) and the University of Rochester last weekend. Sophomore forward Greg Rheinheimer scored the game-winning goals in both matches. Emory University clinched the UAA title, finishing league play with a 5-0-2 record for 17 points. The Bears can finish second to Emory for the second-straight year if they defeat Carnegie Mellon University (Pittsburgh) in their UAA finale.

Current record: 10-4-1 (4-1-1 UAA)

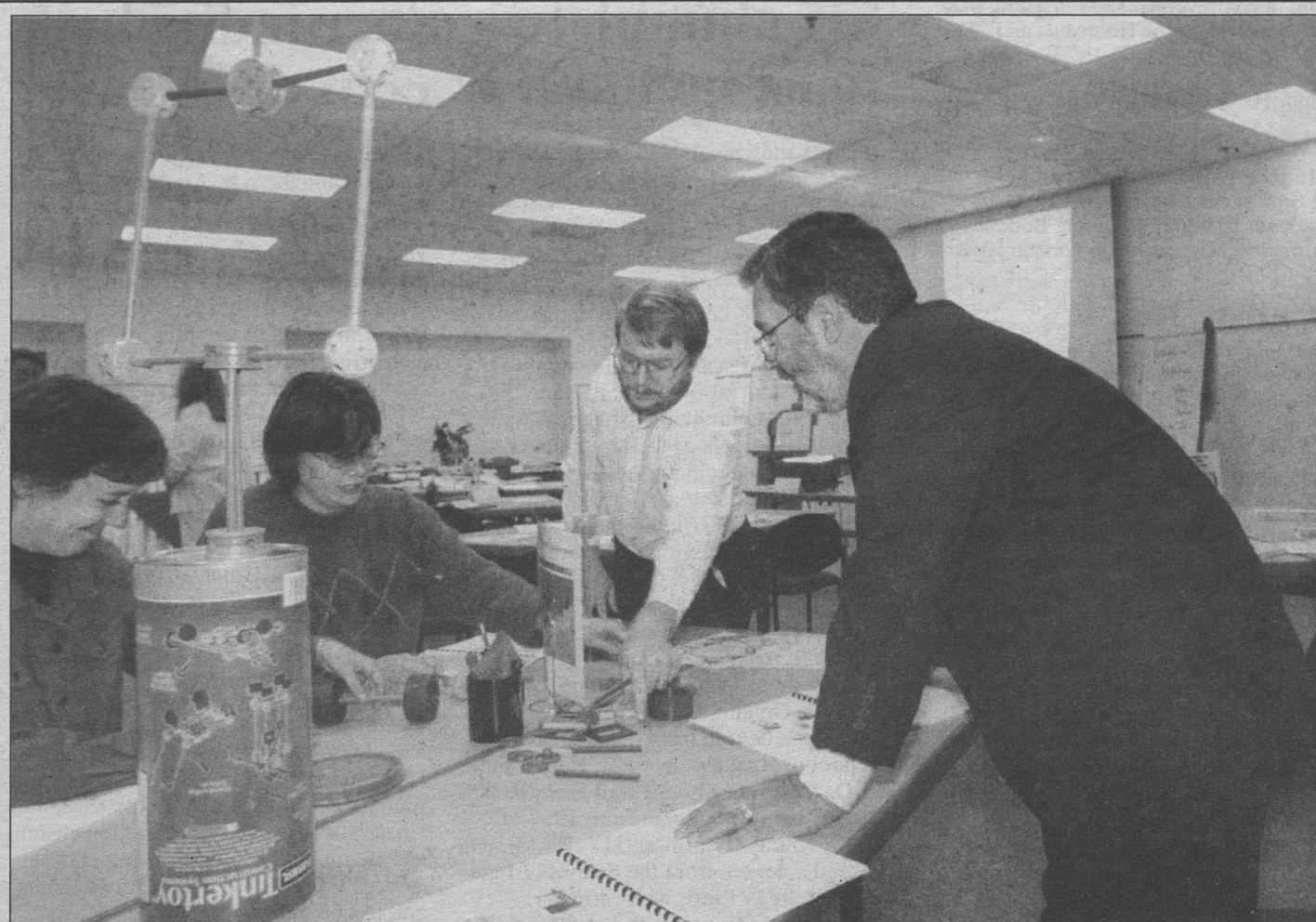
This week: 5:30 p.m. Wednesday, Oct. 30, vs. Principia College (Elsah, Ill.), Francis Field; 1:30 p.m. (EST) Sunday, Nov. 3, at Carnegie Mellon

Women's soccer squad snares pair of shutouts

Sophomore midfielder Lori Thomas and freshman forward Rachel Sweeney scored second-half goals and each assisted on the other's score as the women's soccer team upset the 20th-ranked and previously UAA-unbeaten University of Rochester 2-0 last weekend. Thomas' score gave her sole possession of the Bears' career goal-scoring mark (25). On Friday, Oct. 25, the Bears shut out Brandeis University by the same 2-0 count. The shutouts increase the Bears' total to nine this season, two shy of the school record set in 1990 and 1992. WU concludes its regular season this week.

Current record: 13-3-0 (4-2-0 UAA)

This week: 7:30 p.m. Wednesday, Oct. 30, vs. University of Missouri-St. Louis, Francis Field; 11 a.m. (EST) Sunday, Nov. 3, at Carnegie Mellon



Tinkertoy task

Rick Jouett, right, director of training and development in the Office of Human Resources, explains the purpose of a Tinkertoy exercise to Washington University employees who toured the new training and development center at West Campus on Oct. 21. The Tinkertoy exercise, which calls for participants to build a tower that is 2 feet or taller, is part of a personal-empowerment session. The Tinkertoy exercise demonstrates the effects various management styles have on employee productivity. The new training center, which is located at 7507 Forsyth Blvd., offers all employee training and development sessions in one location. For more information, call Jouett at (314) 935-8047 or Jane Brown, training specialist, at (314) 935-5934.

Four students experience debate frenzy in San Diego

As WUTV General Manager Stephen Lewis jostled with network "power hitters" for interviews after the recent presidential debate in San Diego, filmmaker David Harris quietly stepped back and recorded the melee.

Both Washington University students agreed that their experiences in "Spin Alley" — the post-debate venue crammed with pontificating politicians and swarming journalists — was not for the faint of heart.

"You had to be aggressive," said Lewis of his efforts to record interviews for a news magazine program that will launch WUTV, the University's new student-run TV channel.

"It was a free-for-all. It was insane. I was fighting for space with an NBC cameraman," recalled Lewis, who at that moment was both filming a politician and holding out a microphone. "The NBC guy shoved my arm. I shoved back. So then he grabbed my arm and pinned it against the guy I was next to. I have a new-found understanding of what the media go through to get a story."

The lengths journalists go to get a story is part of the story Harris plans to tell in his documentary about the behind-the-scenes making of a presidential debate and the media's influence on politics.

"I was more concerned with stepping back and observing the process," Harris said of his project that is separate from that of WUTV. "It started out as a look at the media's impact on politics. I've expanded it to include the whole process of how one puts together a debate, and politics in general."

The two Arts and Sciences students — Lewis, a junior psychology major, and Harris, a senior history and political science major — have been delving into the machinations of presidential politics and debate dealings for the past several months.

They put countless hours of preparatory work into their projects in anticipation of the scheduled debate at Washington University on Sept. 25. But Lewis and Harris watched their efforts drop helplessly onto the cutting-room floor at the announcement of the St. Louis debate's cancellation.

"When we found out that it was off, that was the most depressing day in my life," Lewis said.

Both projects, however, were resurrected from the brink of destruction. Harris' trip to California, along with camera operator Chris Kuefler, a senior in the John M. Olin School of Business, was financed by the Commission on Presidential Debates.

American Airlines picked up the transportation tab for Lewis and Adam Pogach, a senior political science major, to make their trip.

Janet Brown, executive director of the commission, said that after the St. Louis debate was canceled, the commission wanted to try to do anything possible to help see Harris' documentary project through.

"Washington University hosted an unbelievable debate four years ago, and we were very much looking forward to coming back," Brown said. "We were extremely grateful for the gracious attitude of everyone there and the fact they were continuing ahead with many of their planned activities."

Harris had several weeks to prepare for the trip to San Diego. Lewis, however, found out a day before the debate that he and reporter Pogach would travel to California. A KSDK-TV (Channel 5) news story on their plight to secure funding for the trip prompted a call by American Airlines about 15 minutes after the 5 p.m. newscast the day before the debate, Lewis recalled.

"We had less than 12 hours to get ready and go," he said.

Harris, who is considering a career in film, believes one of the biggest challenges in his project has been improvising and adjusting to daily changes. But now that the debates and most of the filming are complete, the hard work really begins, Harris said. He has more than 16 hours of footage that must be edited to about one hour.

"The editing, that's where the movie is made," Harris said. He plans to debut the documentary at a student film festival scheduled for the spring. "After that, hopefully, it will go to a larger venue," Harris said.

The public will have the chance to see the results of Lewis' work later this year when WUTV starts broadcasting on Channel 55. The experience left an indelible mark on Lewis, who is planning a career in TV journalism. "It was a crazy, crazy, crazy experience," he said. "I've never been so exhausted in all my life. There are a lot of professionals in the business who haven't had the chance to do what we did."

— Neal Learner

Holocaust lecture to feature expert on criminal justice

Criminal justice and international criminal law expert M. Cherif Bassiouni will deliver the Holocaust Memorial Lecture in the Assembly Series at 11 a.m. Wednesday, Nov. 6, in Graham Chapel. The lecture, "Stopping Impunity for International Crimes," is free and open to the public.

Since 1964, Bassiouni has been a professor at the DePaul University College of Law, and for the last six years, he has served as president of DePaul's



M. Cherif Bassiouni

International Human Rights Law Institute. He is the author of 12 books and has edited 25 books on international criminal law, criminal justice and comparative criminal justice.

Two of his more recent books are "The Law of the International Criminal Tribunal for the Former Yugoslavia" (1996) and "Crimes Against Humanity in International Criminal Law" (1992).

In addition to monographs, Bassiouni has contributed more than 150 law review articles to legal publications. Many of the articles have been cited in U.S. and international courts, including four U.S. Supreme Court cases. Bassiouni co-edits the journal *Revue Internationale de Droit Penal* and edits the journal *Nouvelles Etudes Penales*.

Bassiouni has served as an expert witness before U.S. House and Senate committees on subjects ranging from war crimes committed in the former Yugoslavia to extradition reform. He has held a number of United Nations appointments, including vice chair of the General Assembly's Ad Hoc Committee on the Establishment of a Permanent Criminal Court and consultant to the Crime Prevention and Criminal Justice Branch for the Eighth United Nations Congress on the Prevention of Crime and the Treatment of Offenders.

Bassiouni received a law degree in 1964 from the Indiana University School of Law; an LL.M. in 1966 from the John Marshall Lawyers Institute; and an S.J.D. in 1973 from George Washington University. He received an undergraduate degree in 1955 from College de la Sainte Famille in Cairo, Egypt.

The annual Holocaust Memorial Lecture was inaugurated in 1989 to remember the Holocaust and to address the broader implications of such events within a large historical context.

For more information about Bassiouni's lecture, call (314) 935-5285.

Campus Watch

The following incidents were reported to the University Police Department from Oct. 21-27. Readers with information that could assist the investigation of these incidents are urged to call (314) 935-5555. This release is provided as a public service to promote safety-awareness on campus.

Oct. 21

8:47 a.m. — A staff member reported that between the evening of Oct. 18 and the morning of Oct. 19, 12 T-shirts were stolen from the Athletic Complex.

Oct. 22

9:57 a.m. — A faculty member reported that the renewal tabs on the license plates of a vehicle parked near Givens Hall were stolen Oct. 21.

9:53 p.m. — A student reported that \$300 was stolen from a desk drawer in a Shepley Residence Hall room between Oct. 15 and 22.

Oct. 23

4:30 p.m. — A student reported that a silver 1991 Toyota Tercel was stolen from a parking lot near Givens Hall.

Oct. 24

6:16 p.m. — A student reported that a wallet containing credit cards and cash was stolen from an Athletic Complex locker room.

9:51 p.m. — A student reported that a white male in his late 30s or early 40s exposed himself on the fourth floor of Olin Library.

The suspect could not be located after University Police arrived.

Oct. 25

10:39 a.m. — A staff member reported that two VCRs were stolen from Simon Hall on Sept. 10. The delay in reporting is due to verifying that the items were not borrowed by other personnel.

11:43 a.m. — University Police received a report of a fraudulent \$70 check that was written at Bear Necessities in Wohl Student Center.

2:50 p.m. — A student reported that a laptop computer was stolen from the Bear's Den in Wohl Student Center on Oct. 24.

3:54 p.m. — A student reported that a set of keys and a student identification card were stolen from Simon Hall on Oct. 24.

5 p.m. — A student reported that the renewal tabs on the license plates of a vehicle parked near the fraternity houses were stolen.

University Police also responded to three reports of telephone harassment; one report of vandalism; and one report of possession of stolen property.

Child-care centers have preschool openings

The child-care centers at Barnes-Jewish and St. Louis Children's hospitals have some immediate preschool openings.

The Barnes-Jewish South Child Care Center at 4353 Clayton Ave. has openings for 3-year-olds. Call (314) 362-0777 for more information. There are openings for 4- and 5-year-olds at the St. Louis Children's Child Development Center at 321 S. Newstead St. For more

information, call (314) 454-0700.

A 3-, 4- and 5-year-old class has openings at the Barnes-Jewish North Child Care Center at 4542 Forest Park Ave. For information, call (314) 367-0063.

These centers serve children of Washington University employees. Each of these centers offers developmental preschool programming taught by teachers with degrees in early childhood education.

School of Medicine recognizes employees for years of service

The School of Medicine recognizes the following employees for their years of service and dedication. These employees have reached or will reach milestones in their careers this year. Employees receiving service recognition are listed below.

40 Years of Service

Geraldine Fleischman ophthalmology and visual sciences

30 Years of Service

Edith E. Banks management services
Linda Susan Day radiology
Marian Rita Halpin psychiatry
Norman L. Hente radiology
Gerald C. Johns Institute for Biomedical Computing
Bettie Jean Jones library

25 Years of Service

Catherine Ann Berg special projects
Rita L. Boshans cell biology and physiology
Gerald Lee Chytla Washington University Shared Billing and Collection Services (WUSBCS)
Adult Clinical Research Center

Doris E. Evans

Joan Fink pathology
Judy Sharon Gamblin obstetrics and gynecology

Paul Philson Hipps facilities management
Lennwood Holman facilities management
Joan Marie Hucker orthopaedic surgery
Carol Louise Jones genetics
Carol Phyllis Keller radiology
Ernestine Love Tissue Culture Support Center

Ella Mae McGhee facilities management
Edward Robert Meyer Jr. psychiatry
Joseph J. Mullaney psychiatry
Randall Dewey Rhodes facilities management
Debra Rice WUSBCS
Carole N. Schultz admissions/record

20 Years of Service

Jacqueline L. Bassett WUSBCS
Lillian K. Beal pediatrics
Alice Jean Becker radiology
Norma D. Brown internal medicine
Steven R. Buchholz comparative medicine
Cleatus Burns Jr. facilities management
Jenny Marie Buzan biochemistry and molecular biophysics

Vincent J. Cannistraro molecular microbiology
David Yuen-Kai Chi radiology
Walter C. Clermont pathology
Virginia L. Devenport surgery
Patricia Ann Eagan biochemistry and molecular biophysics

Robert Joseph Engeszer library
Robert Joseph Feltmann pathology
Dianne Rae Fikar management services
Kevin Joseph Gagen surgery
Barbara K. Gearing internal medicine
Patricia A. Gunn library
Angela M. Hibbits psychiatry
Frances Olivia Imming radiation safety
Jo Ann Jackson comparative medicine
George Harold Jester facilities management
Kenneth K. Kaiser Institute for Biomedical Computing

Christine Ann Keller surgery
James Gayle King anatomy and neurobiology

Debbie Krenning obstetrics and gynecology

Lennis L. Lich radiology
Mary Ann Lockett radiology
Hieu Van Luu anatomy and neurobiology

Joyce S. Marvel pathology
Thomas Alfred Meiningier surgery
Viola Moore facilities management
Alan Joseph Olendorf facilities management
G. James Planer neurology

Henry M. Robinson Jr.
Thomas E. Rucinsky

Roslyn Simms
Brit D. Stoskopf
Janice F. Struck
Frances Ann Sutherland
Virgil Terrell Jr.
Ursula Doris Voegel

Annie B. Wilson
Alten Winters

15 Years of Service

Cynthia Marie Ade

Richard A. Berger obstetrics and gynecology
Rose Ann Bodman internal medicine
Carol Jean Boyd psychiatry

Patrick Glen Caldwell cell biology and physiology
Rati Minocha Choksi radiology
Perry James Cole radiology
Craig Patrick Collins radiology
Patricia Ann Davis pediatrics
Melvin Jacob Drumm molecular biology and pharmacology

Theresa M. Dulle WUSBCS
Gary Ralph Ebrecht WUSBCS
Rebecca Suzanne Evans management services
Sharon Favors internal medicine
Clarkson Fontaine finance
Norma E. Frick radiology
Barbara Ann Gornati obstetrics and gynecology

Beverly June Hahn pediatrics
Patricia Anne Hammond neurology
Mary Jane Hudson WUSBCS
Della Mae Jackson facilities management
Karen M. Janek internal medicine
Krishan Gopal Jethi Adult Clinical Research Center

Deborah S. Johnson occupational therapy
Mary Kathleen Keusenkothen surgery
Donna M. Lavery WUSBCS
Lynn E. Losse radiology
Zina Kim Lubovich Adult Clinical Research Center

Brenda L. McCall neurology
William Bayard
McConnaughey

Orlando J. Moncada biochemistry and molecular biophysics
Janice M. Otis pediatrics
Dianne Marie Parker facilities management
Martin L. Pemberton surgery
Rodney Pleasant radiology
Hal D. Procter facilities management
David Pultman radiology
Patti J. Rensing illustration
Claudette C. Robertson surgery
Diane Louise Schall admissions/record
Rita M. Scott surgery
Peggy Sue Seris genetics
Shannan D. Sharp radiology

Harold Franklin Sims anatomy and neurobiology
Sonya Alicia St. James pediatrics

Sally Lynne Stewart Tissue Culture Support Center
Celia Ann Sutera library
Carol Jean Swanson biostatistics
Joyce Laverne Turner surgery

Jonathon C. Wasson Adult Clinical Research Center
Micki Wilderspin internal medicine
Timothy Joseph Wilding neurology

Patricia Marie Wilson cell biology and physiology
Evamarie Wormstall pathology
Roberta Lynn Yoffie genetics

10 Years of Service

Prosperidad A. Amargo radiology
Diane Marie Barebo obstetrics and gynecology

Jennifer L. Barks internal medicine
Janice Marie Barnett WUSBCS
Paul Billings-Kissir pediatrics

facilities management
Tissue Culture Support Center
internal medicine
radiology
surgery
Student Health Service
pediatrics
Continuing Medical Education
admissions/record
facilities management

obstetrics and gynecology
internal medicine
psychiatry
cell biology and physiology
radiology
neurology
radiology
radiology
pediatrics
molecular biology and pharmacology
WUSBCS
WUSBCS
management services
internal medicine
finance
radiology
obstetrics and gynecology
pediatrics
neurology
WUSBCS
facilities management
internal medicine
Adult Clinical Research Center
occupational therapy

surgery
WUSBCS
radiology
Adult Clinical Research Center
neurology

biochemistry and molecular biophysics
pediatrics
facilities management
surgery
radiology
facilities management
radiology
illustration
surgery
admissions/record
surgery
genetics
radiology
anatomy and neurobiology
pediatrics
Tissue Culture Support Center
library
biostatistics
surgery
Adult Clinical Research Center
internal medicine
neurology
cell biology and physiology
pathology
genetics
radiology

Kathleen Carol Bliss-Rosenberg
Nancy Anne Brada
David L. Braun
Charles Brown

Ronald Lee Burmeister
Kevin Earl Burnett
Vincent Stewart Butler
Patricia A. Caruso
Gail Ann Christian
Alma K. Cogshell
Ginger L. Collins
Arturo Tobias Colonius
Mary Ida Coursen
Orlando Brian Crisp
Alan Edmed Davis
Mary Kathryn DeBenedetti
Thomas L. Deckwerth

Celia Marie Dehn
Barbara Jeanne Dickeson
Caroline Elise Drain
Richard Patrick Fair
Rebecca Elaine Faust
Anthony David Favello
Terry Lynn Ferguson
Adele Terese Fog
Patricia H. Gensel

Karla Sue Giles internal medicine
Mary S. Gould internal medicine
Kathleen Jill Grapperhaus surgery
Laura A. Graves neurology
Gabriela Adelt Green genetics
Elizabeth Ann Grissom neurology
Lois Agnes Gyore WUSBCS
Linda Laverne Hamilton internal medicine
Carol Lynn Hampe psychiatry
Judith May Hanson internal medicine
Kathleen L. Hearty WUSBCS
Janice May Hickok psychiatry
Deborah Ann Hicks pediatrics
Diane Hogan ophthalmology and visual sciences

Laura Kay Holden otolaryngology
William J. Hoppe anesthesiology
Joanne Johnson facilities management
Susan Jacquelyn Johnson pathology
Issac Jones Jr. facilities management
Demetrius Jones comparative medicine
Elizabeth M. Jurgensen obstetrics and gynecology
Paula Kassos genetics
Michael James Keim radiology
Mary Louise Keller radiology
Stacy Beatrice Kiel-Tallis biology and biomedical sciences

Geyouli Kim internal medicine
Mary Frances La Starza surgery
Joan S. Lange pediatrics
Wanda Sue LeJeune pathology
Dana Marie Luebbers internal medicine
Sharon Kay Macke internal medicine
Jayne Christine Marasa Adult Clinical Research Center
Eileen Marie McCann pediatrics

Kathleen Ann McCollough pediatrics
Lori McGee-Minnich neurology
Lillie M. McGill facilities management

comparative medicine
internal medicine
financial planning
cell biology and physiology
otolaryngology
psychiatry
internal medicine
otolaryngology
surgery
pediatrics
obstetrics and gynecology
pathology
anesthesiology
pathology
internal medicine
surgery
molecular biology and pharmacology
pathology
pediatrics
psychiatry
pediatrics
neurology
genetics
radiation safety
internal medicine
biology and biomedical sciences
internal medicine
internal medicine
surgery
neurology
genetics
neurology
WUSBCS
internal medicine
psychiatry
internal medicine
WUSBCS
psychiatry
pediatrics
ophthalmology and visual sciences
otolaryngology
anesthesiology
facilities management
pathology
facilities management
comparative medicine
obstetrics and gynecology
genetics
radiology
radiology
biology and biomedical sciences
internal medicine
surgery
pediatrics
pathology
internal medicine
internal medicine
internal medicine
Adult Clinical Research Center
pediatrics
neurology
facilities management

Shirley Ann McTigue
Lois Jean Miller
Russell G. Monika
Arlene Diane Moore
Byron J. Moore
Derek P. Morgan
Patricia Ann Morris

Mary Elizabeth Mueller
Kathryn Ann Murphy-Frost
Carolyn Ann Nash
Sharon Darlene O'Connell
Kathleen Ann Obert
Ann Marlene Offill

Barbara A. Oldani
Chung Soon Park
Joseph Dee Petty
Bethany Anne Pluymers

Joan Marie Podleski
Connie S. Povilat
Diana Sue Price
Charles Keith Radcliff
Victoria Lynn Reckamp
Dorothy P. Reichardt
Geraldine Ann Rhodes

Alice R. Riley anesthesiology
Virginia M. Roberts internal medicine
Debra S. Roesler-Hester internal medicine
Susan Diane Russell surgery
Anna Elena Santiago pediatrics
Suzanne Ruth Schloemann internal medicine
Linda Marie Schreier physical therapy
Richard J. Schreit facilities management
Patricia Ann Schroeder psychiatry
Cynthia Ann Schuhardt surgery
Aarti Raj Shah neurological surgery
Jeanette Aisha Sharif psychiatry
Jeraldine P. Smith pathology
Larry Lynell Stewart obstetrics and gynecology

Ann Elizabeth Stone

Nancy Suedmeyer
Alice E. Sutton
Debra Diane Swap
Nina Jo Tyler

Keith Alan Van Booven surgery
Craig C. Vokracka facilities management
Sally Joan Wahlbrink facilities management
Linda Ann Walp surgery
Mary Frances Walsh genetics
Mary L. Weis management services
Nancy Jane Wheeler internal medicine
Tracy Edward Whorton neurology
Burton M. Wice comparative medicine

David F. Wilkins molecular biology and pharmacology
Joyce Lynette Williams pediatrics
Lisa Marie Wojcik pediatrics
Frances Ann Wokurka internal medicine
Barbara A. Wollberg orthopaedic surgery
Marsha Ann Woodall WUSBCS
Linda Sue Woodcock surgery
Kristin K. Wright neurological surgery
Jill Andrea Yarasheski internal medicine

Readings to remember death of Saro-Wiwa

“On the Death of Ken Saro-Wiwa: Readings in Recognition of the Nigerian Writer” will feature William H. Gass, Ph.D., and Eugene B. Redmond reading from the works of writer Ken Saro-Wiwa to observe the one-year anniversary of his death.

In addition, Nigerian exile Noble Obani-Nwibari, vice president of the Movement for the Survival of the Ogoni People (MOSOP), will read a memoir of his friendship with Saro-Wiwa, and Nigerian exiles living in St. Louis will stage a portion of one of Saro-Wiwa's plays.

All of these events will take place at 8 p.m. Thursday, Nov. 7, at the Midtown Arts Center, 3207 Washington Ave., St. Louis.

These activities are part of a weeklong series of events to remember Saro-Wiwa's death. On Wednesday, Nov. 6, the film “Delta Force” will be shown at a time and place to be announced. From 5-7 p.m. Friday, Nov. 8, there will be a Nigerian Cultural Celebration and Reception in the Rotunda of St. Louis City Hall. At 9:30 a.m. Sunday, Nov. 10, there will be a worship service at Immanuel Lutheran Church, 3540 Marcus St., St. Louis.

Saro-Wiwa and eight others were hanged on Nov. 10, 1995, by the Nigerian

military government, which charged them with the murders of four pro-military leaders. Saro-Wiwa maintained his innocence and claimed he was framed because of his opposition to the government. Saro-Wiwa was a vocal critic of Gen. Sani Abacha, who has ruled Nigeria since November 1993, and of Shell Oil Co., which controls most of the oil production in oil-rich Nigeria. In 1990, Saro-Wiwa founded MOSOP to protest the economic and environmental injustices that are believed to be perpetrated against the Southern Nigerian ethnic group.

Saro-Wiwa was a highly acclaimed writer of plays, poems, novels and political essays, including “Sozaboy,” “A Forest of Flowers” and “A Month and a Day: A Detention Diary.”

Gass is the David May Distinguished University Professor in the Humanities and director of the International Writers Center in Arts and Sciences. Redmond is the Poet Laureate of East St. Louis, Ill.

The events are sponsored by the American Friends Service Committee, the International Writers Center, River Styx, and the St. Louis Support Committee for MOSOP. Admission is free and open to the public.

For information, call (314) 862-5773.

Obituaries

Hyman Minsky, professor emeritus of economics

Hyman P. Minsky, Ph.D., professor emeritus of economics in Arts and Sciences, died of pancreatic cancer Thursday, Oct. 24, 1996, in Rhinebeck, N.Y. He was 77.

Minsky, a leading authority on monetary theory and financial institutions, had been a member of Washington University's Department of Economics for 25 years before retiring in 1990. He also was a member of the boards of both Mark Twain Bancshares and The Jerome Levy Economics Institute of Bard College in Annandale-on-Hudson, N.Y. He joined the Levy Institute as a distinguished scholar in 1990 and continued his research and writing there until a few months before his death.

Minsky's pathbreaking work on the recurring instability of the financial system in a capitalist economy served as the genesis of the Wall Street paradigm. He was the author of four books and more than 100 professional articles.

“The defining feature of Hy's work is the importance of the financial system for understanding economic fluctuations and growth,” said one of Minsky's colleagues, Steven Fazzari, Ph.D., professor of economics. “He emphasized financial fragility and instability — the view that the accumulation of debt must eventually curtail firms' investment, leading to financial retrenchment and recession. Government monetary and fiscal policy, an important focus of Hy's research, may temporarily contain financial instability, but policy cannot prevent it from breaking out periodically. These themes dominate Hy's extensive published writing from the 1950s to the last year of his life. “For much of Hy's career, mainstream

economic thinking did not pay much attention to the importance of the financial system for macroeconomic activity,” Fazzari continued. “But in the last 15 years, there has been an outpouring of new research, both theoretical and empirical, that rediscovers and validates Hy's views.”

Minsky this year received the prestigious Veblen-Commons Award, which is given by the Association for Evolutionary Economics. The award recognizes the contributions of an outstanding scholar in the field of evolutionary institutional economics and acknowledges exemplary standards of scholarship, teaching excellence, public service and cogent research.

Prior to his University appointment, Minsky taught at the University of California-Berkeley, Brown and Harvard universities, and the Carnegie Institute of Technology. He also served on the faculty at the Centro di Studi Economici Avanzati in Trieste, Italy, in 1980.

He received a bachelor's degree from the University of Chicago in 1941. He earned a master's degree in public administration in 1947 and a doctorate in economics in 1954, both from Harvard.

He is survived by his wife, Esther; a daughter, Diana Minsky of Rome; and a son, Alan Minsky of Los Angeles.

A memorial service is being planned. The family requests that memorial contributions be made to a scholarship fund for graduate students — the Hyman P. Minsky Prize in Economics — which was established at the time of his retirement. Donations to the fund should be sent to Washington University, Department of Economics, Campus Box 1208, One Brookings Drive, St. Louis, MO, 63130.

Opportunities & personnel news

Hilltop Campus

The following is a partial list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 130 West Campus, or by calling (314) 935-5906.

Library Assistant 970090. *School of Business.* Requirements: high school graduate with some college preferred; knowledge of Word for Windows and Excel; ability to perform basic computer maintenance highly desirable; ability to interact well with library users; ability to explain and interpret library policies; ability to work independently and with minimal supervision; detail-oriented. Application required.

Personal Computer Lab Supervisor 970094. *School of Business.* Requirements: high school graduate with some college preferred; good communication and organizational skills; service-oriented; experience with Windows '95; Novell networking experience preferred. Application required.

Serials Assistant 1B 970095. *School of Law.* Requirements: high school graduate with some college preferred; experience with IBM or IBM-compatible PCs; library technical services experience; Innopac experience; reliability in following government regulations and library procedures; ability to learn new procedures and computer programs. Application required.

Departmental Secretary 970096. *Alumni and Development.* Requirements: associate's degree or equivalent knowledge; specialized secretarial and business training helpful; three years general office experience; excellent typist; good command of English; alertness; well-spoken; ability to deal with multiple priorities with minimal

supervision; maturity; well-groomed; pleasantness; ability to work well with and relate easily to others. Application required.

Circulation Services Assistant (Circulation Unit) 970101. *Olin Library.* Requirements: two years of college or equivalent study/work experience; library work experience desirable; experience with minor maintenance of photocopiers desirable; computer skills desirable; interpersonal skills, including ability to communicate with a diverse public and staff; strong service orientation; willingness to work flexible hours, including some weekend and evening hours, as needed. Application required.

Service Worker, Lewis Center 970107. *School of Art.* Requirements: high school graduate; ability to work with minimal supervision; friendliness and responsiveness to students and faculty; ability to work cooperatively with other staff members; reliability. Responsibilities include cleaning the three-story Lewis Center art school building, including the sculpture and ceramics areas, and maintaining a schedule of daily and weekly cleanings that result in a building that is free of trash and dust and has a clean appearance with sanitary restrooms and drinking fountains. Some heavy lifting of equipment and trash required. Application required.

Accounting Clerk 970108. *Earth and Planetary Sciences.* Requirements: high school graduate, some college; ability to work accurately and efficiently with numerical data and with guidelines, particularly those needed to comply with A-21 and A-110 circulation; ability to learn University electronic accounting systems for data entry and information retrieval; ability to learn and retain detailed department bookkeeping procedures; ability to interact well with faculty, staff, students, other University employees, and vendors. Application required.

Senior Accountant-Special Projects 970110. *Accounting Services.* Requirements: bachelor's degree; excellent interpersonal skills; service-oriented communicator who is accessible and a team player with the ability to forge relationships and bring groups together on difficult accounting issues; ability to participate as a team member on various teams and projects to achieve the goals of Accounting Services; excellent verbal and written communication skills; self-motivation; driven by challenges; ability to work independently with a high degree of reliability and accuracy; ability to "think on his/her feet"; ability to meet deadlines of varying degrees. Application required.

Input Output Operator 970113. *Computing and Communications.* Requirements: high school graduate; ability to lift up to 35 pounds. Schedule: part-time, evening shift, Saturday and Sunday, 7 p.m.-7 a.m. Application required.

Assistant Manager of Personal Computing Support 970114. *School of Business.* Requirements: high school graduate, some college; experience installing, maintaining and providing support for LANs (Novell, NT Server, Appletalk, TCP/IP); experience with PC and Macintosh hardware maintenance issues; strong problem-solving skills; demonstrated outstanding customer-service skills. Application required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees interested in submitting a transfer request should contact the Human Resources Department of the medical school at (314) 362-7202 to request an application. External candidates may call (314) 362-7195 for information regarding applica-

tion procedures or may submit a résumé to the human resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, MO, 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than human resources. Job openings also may be reached via the World Wide Web at <http://@medicine.wustl.edu/wumshr>.

Medical Research Technician 960187-R. *Pharmacology.* Requirements: energetic; organizational skills; experience with basic instrumentation and scientific math calculations; experience working with mice and surgery highly preferred. Responsibilities include breeding and maintaining lab mice; making transgenic and knockout mice; organizing and maintaining records of mouse strains; working with radioisotopes to make DNA probes; and performing other basic laboratory duties as assigned.

Clerk II 960991-R. *Ophthalmology.* Requirements: high school graduate or equivalent; experience in a patient office. Responsibilities include scheduling appointments, surgeries, diagnostic tests and admissions. Schedule: part-time, 20 hours per week.

Secretary 961092-R. *Budget Office.* Requirements: high school graduate or equivalent, bachelor's degree preferred; three to five years experience in a business environment; ability to use PC spreadsheet and word processing software, to manage multiple tasks, and to work effectively with all levels of staff.

Medical Research Technician 970066-R. *Obstetrics and Gynecology.* Requirements: knowledge of basic instrumentation and instrument troubleshooting; energetic. Responsibilities include working with solution/media preparation, scientific math calcu-

lations, protein and rna hybridization, radioisotopes, recombinant DNA, sterile techs, tissue cultures, frozen sections, paraffin, sectioning, and tissue staining. This position provides molecular and cellular biology support. Schedule: part-time, 20 hours per week.

Secretary 970072-R. *Surgery.* Requirements: high school graduate or equivalent; two years secretarial experience; typing 60 wpm. Responsibilities include typing correspondence, manuscripts and grants; making travel arrangements; and serving as receptionist for director of a research laboratory. Schedule: part-time, 20 hours per week.

Programmer Analyst II 970087-R. *Bone Marrow Transplant.* Requirements: bachelor's degree; superior interpersonal skills; experience with systems programming, database selection and establishment, and specialized program design; experience with networking/data communications, scientific and statistical programming, and MS/DOS preferred. Responsibilities include creating a new database for the Bone Marrow Transplant Division; recommending and creating a structure in which to organize data for clinical trials; providing statistical analysis; and maintaining the database.

Custodian 970111-R. *Custodial Services.* Requirements: high school graduate or equivalent; knowledge of institutional house-keeping preferred. Training available. Multiple full-time positions available for all shifts.

Programmer Analyst 970277-R. *Psychiatry.* Responsibilities include assisting with various computer-related tasks on a research project; installing hardware and software; troubleshooting; and some SAS programming. Schedule: part-time, 20 hours per week.

Network Support Technician 970281-R. *Psychiatry.* Requirements: related college degree and

one year experience with Novell, Compaq, Apple, Notes, GroupWise, Microsoft Office and the Internet; self-motivated; team player; excellent technical, troubleshooting, organizational and communication skills; ability to work independently on network projects and on desktop maintenance and troubleshooting.

Financial Analyst 970306-R. *Radiology.* Requirements: bachelor's degree in accounting/business; master's degree in business administration or certified public accountant is a plus; five years experience in a computerized accounting environment; strong computer skills, including Lotus, Excel, networking and graphics; strong interpersonal skills; attention to detail; health-care experience.

Accounts Payable Assistant 970310-R. *Radiology.* Requirements: bachelor's degree in accounting/business, or three years experience in accounts payable; strong computer skills; strong interpersonal skills; attention to detail. Responsibilities include processing accounts payable documents; maintaining files and expense records; preparing various departmental reports; and providing support and assistance to departmental staff.

Research Patient Coordinator/Outreach Worker 970314-R. *Applied Physiology.* Requirements: licensed registered nurse; experience in geriatric environment. Responsibilities include serving as a representative of the Washington University Long Term Care Research Consortium to outside constituencies; coordinating research study protocols, which involves screening and evaluating clinical data for potential study participants; guiding enrollment; performing clinical assessments of nursing home residents; monitoring patient compliance; accumulating data; recordkeeping; assisting in presentations to IRM committee; and preparing budgets.

MetroLink expansion will mean better access to regional centers of activity — from page 1

sity officials to work actively in support of an extension of MetroLink along Forest Park Parkway. Since my arrival at the University later that year, my colleagues and I have continued to build on the good efforts that were already under way. We are working with the elected leadership in Clayton and University City to support a route that will best serve the neighborhoods and businesses of this area.

The current MetroLink line connects two important regional centers of activity: downtown St. Louis and the airport. The proposed new east-west line would connect our neighborhoods to these destinations and to another proposed new line running north-south along Interstate 170. The route we support would run west from the current station at DeBaliviere and Forest Park along the south side of Forest Park Parkway, crossing under Skinker and remaining below grade with one or two possible stations on the Washington University campus. The University would like to see the line continue westward, crossing under the intersection of Big Bend and Forest Park Parkway to the north side of the Parkway, where it would run below grade and then underground at the Pershing intersection to another stop located to serve the east end of Clayton's business district. This route would require no taking of residential property. The route would continue on to a stop in Clayton's business/government center before connecting with the I-170 north-south light-rail line. Neighborhoods along the route would thus be linked to the region's two largest centers of commerce and government, the airport and other important destinations.

If this proposed east-west route is approved, the University will provide

right-of-way on our property under these conditions:

- MetroLink must run below grade on the campus and at major intersections so that easy automobile and pedestrian access to and from Forest Park Parkway can be maintained.
- MetroLink must not adversely affect the appearance of our campus and the surrounding neighborhoods. The University will work to improve the appearance of our northern boundary as MetroLink is being designed and constructed.
- MetroLink operation must not detract from University activities and the day-to-day life of the surrounding communities.
- Any MetroLink stop at Washington University will be designed as a "walk-on" station and not a "park-and-ride" station.

If these conditions are met, the communities surrounding the campus will enjoy the advantages of easy access to MetroLink. We all will be able to travel more easily to stops at Union Station, the downtown stadiums and the riverfront, to Clayton, and to the airport, where the light-rail station is inside the terminal. An added advantage for many of us is the direct connection MetroLink will provide to the other major universities in the region — Saint Louis University and the University of Missouri-St. Louis — which are already served by light rail.

Some have asked if the University stands to gain any financial advantage at the expense of taxpayers in providing a right-of-way to MetroLink. The answer is no. The value of the land the University will contribute as a right-of-way greatly exceeds any direct financial benefit to the institution. We do expect to see some reduction in expenses for shuttle services between the Hilltop, West and Medical

campuses and decreased pressures to build new parking lots and garages. The major advantage to Washington University is the same advantage afforded to everyone who lives nearby: improved connections to other destinations throughout the region.

The safety, attractiveness and future vitality of the neighborhoods surrounding the campus are very important to Washington University. We benefit from being located in an area with a strong sense of community. Experience elsewhere shows that the presence of light rail in our area will enhance the value of nearby homes and will contribute to the stability and permanence of our neighborhoods. In many American cities, home buyers pay a significant premium for housing within walking distance of safe and efficient

rapid transit. Better connections to the rest of the region through improved transportation options will only enhance what are already very desirable neighborhoods.

If you have questions about Washington University's position on MetroLink expansion, I encourage you to call or write to the members of our staff who are best informed about the project: Pamela Lokken and Rose Windmiller in our Office of Governmental and Community Relations (935-5752 or Campus Box 1191) or M. Fredric Volkmann, Vice Chancellor for Public Affairs (935-5476 or Campus Box 1177). We look forward to working with you to bring light rail to our area.

Sincerely yours,
Mark S. Wrighton

United Way campaign ends Nov. 4

Only a handful of days remains for Washington University to meet its 1996 United Way campaign goals.

The University's fund drive closes Monday, Nov. 4.

As of last week, the University campaign had yielded \$246,619 in contributions — about 75 percent of the \$325,000 goal. Last year, the University exceeded its campaign goal of \$306,000.

Another goal this year is 25 percent participation among University employees.

Clarence C. Barksdale, the University's United Way campaign coordinator and vice chair of the Board of Trustees, said he hopes to see repeat participation among all of last year's contributors, as well as participation by new donors.

"We are only at 18 percent (participation)," Barksdale said. "Therefore, we all need to make a real effort if we are to meet our goals."

All employees in late September received pledge cards encouraging their participation. United Way contributions benefit more than 140 agencies serving the greater St. Louis metropolitan area. The University has supported the United Way campaign since its inception more than 25 years ago.

For more information, call Gloria W. White (935-5949), Ann Prenatt (935-8046) or John N. Drobak (935-6487) on the Hilltop Campus; Pat Gunn (362-6802) or Mabel L. Purkerson (362-4234) on the Medical Campus; and Tom Eschen (935-4349) or Tom Harig (935-5607) at West Campus.